

BASIC QUALIFICATIONS STATEMENT

Instructions:

Complete this basic qualification statement for the GS-1340-05 and/or GS-1340-07. The information you provide on this sheet will be used to determine if you are qualified at the GS-1340-05 and/or GS-1340-07 level(s). The education and experience must be obtained by the closing date of this announcement.

Attach to this form **legible** copies of **all** transcripts (unofficial or student copies are acceptable).

NOTE: If the course title does not clearly reflect the specific content of the course to show how it satisfies the qualification requirement, you **must** include 1) descriptive information from your course catalog (you may provide a photocopy detailing the course content and how it meets the requirement; or 2) a letter or other document from the meteorology (or other physical science) department of your school detailing the course contents and how it meets the requirement; or 3) a letter from the dean, registrar or other school official documenting the course content and how it meets the requirement.

GS-1340-05/07 BASIC QUALIFICATIONS

You **must** meet the education course work requirements listed below **and, in addition**, have **either** 1) Bachelors degree from an accredited college or university with a major in meteorology, atmospheric science, or other natural science; **or** 2) appropriate experience that provided knowledge comparable to that acquired through completion of a 4 year course of study in meteorology, atmospheric science, or other natural science major.

1. Bachelors degree completed at _____ on _____
with a degree in _____.

2. Experience that provided comparable knowledge to a 4 year degree. For example, list the name of the organization where you worked, the dates of service, the hours worked per week, and describe the type of work performed.

3. At least 24 semester (36 qtr.) hours of credit in meteorology/atmospheric science INCLUDING a minimum of:

(a)**Six** semester hours of atmospheric dynamics and thermodynamics. Ideally, these courses should have included the following topics: equations of motion, motion in curvilinear coordinate systems; continuity equations; geostrophic, gradient and thermal winds; circulation theorem; vorticity, divergence and pressure tendency equations; general wave theory; hydrodynamic, barotropic and baroclinic instabilities; theory of sound, gravity, and Rossby waves.

NOTE: A prerequisite or corequisite of calculus is required to meet this requirement. Please place an asterisk () by those courses that meet the prerequisite or corequisite requirement.*

Course #	Course Name	# Sem/Qtr Hours	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(b)**Six** semester hours of analysis and prediction of weather systems (synoptic/mesoscale). Topics may include: plotting and analysis of weather charts; three-dimensional analysis of atmospheric systems; diagnosis of vertical motion and weather development; analysis of thermodynamic diagrams; instability and convection; hydrostatic equilibrium and frontal theory; kinematic analysis; jet streams and cyclones; and relation of theoretical concepts to weather maps:

Course #	Course Name	# Sem/Qtr Hours	Grade
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_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(c)**Three** semester hours of physical meteorology. Ideally, these courses should have included the following topics: atmospheric optics; atmospheric electricity; atmospheric acoustics; chemical composition of the atmosphere; the laws of radiation; cloud physics; and precipitation physics.

Course #	Course Name	# Sem/Qtr Hours	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(d)**Two** semester hours of remote sensing of the atmosphere and/or instrumentation (for example, radar meteorology):

Course #	Course Name	# Sem/Qtr Hours	Grade
_____	_____	_____	_____
_____	_____	_____	_____

(e) Other meteorology/atmospheric science courses to satisfy the **24 hour requirement**:

Course #	Course Name	# Sem/Qtr Hours	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

4. Six semester hours of physics, with a least ONE course that INCLUDED LABORATORY SESSIONS. *NOTE: A prerequisite or corequisite of calculus is required to meet this requirement. Please place an asterisk (*) by those courses that meet the prerequisite or corequisite requirement.*

Course #	Course Name	# Sem/Qtr Hours	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

5. Three semester hours of ordinary differential equations. Course work in partial differential equations will not satisfy this requirement. *NOTE: Calculus courses must be appropriate for a physical science major.*

Course #	Course Name	# Sem/Qtr Hours	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

6. At least nine semester hours of course work appropriate for a physical science major in any combination of three or more of the following: physical hydrology, statistics, chemistry, physical oceanography, physical climatology, radiative transfer, aeronomy, advanced thermodynamics, advanced electricity and magnetism, light and optics, and computer science:

Course #	Course Name	# Sem/Qtr Hours	Grade
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

At the GS-1340-07, in addition to the basic qualifications requirements you provided above, you must also have either 1) at least one year of *professional* meteorology experience (e.g., entry-level trainee professional experience); or 2) completed one year of graduate study in meteorology or other directly related field of study at an accredited college or university (one year equals 18 semester hours, 27 quarter hours, or the amount determined by the school); or 3) superior academic achievement (based on class standing, grade point average, or election to membership in a national scholastic honor society). The education and experience must be obtained by the closing date of this announcement.

1. One year of professional meteorological experience. ____yes ____no. If yes, list the name of the organization where you worked, the dates of service, the hours worked per week, and describe the type of work performed.

2. Graduate Level Study. List college or university, dates attended, courses completed, and attach transcript (unofficial or student copy is acceptable).

3. Superior Academic Achievement Provisions:

a) Class Standing - applicants must have been in the upper third of the graduating class based on completed courses. List your class standing in the college, university, or major subdivision (e.g., College of Engineering) _____ out of _____.

b) Grade Point Average (GPA) - rounded to one decimal place (e.g., 2.94 will round to 2.9 and 2.95 will round to 3.0). Show your computations below.

(1) Cumulative GPA for all courses completed in 4 years of education: _____ (must be 3.0 or higher out of a possible 4.0).

OR

(2) GPA for courses completed during the final 2 years of the curriculum: _____ (must be 3.0 or higher out of a possible 4.0).

OR

- (3) GPA for required courses completed in your major field: _____
(must be 3.5 or higher out of a possible 4.0).

OR

- (4) GPA for required courses in the major field completed during the
final 2 years of the curriculum: _____ (must be 3.5 or higher out
of a possible 4.0).

- c) Membership in a National Scholastic Honor Society (other than freshman
honor society membership). Acceptable honor societies are listed in the
Association of College Honor Societies: Booklet of Information and/or
Baird's Manual of American College Fraternities. List all national
scholastic honor societies in which you are a member.